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B.R. Stein
1988

China

Catalogue #1-111 (Accn. 12781)

Journal

Math 101

2012

2

2012

Math 101

logarithm

B.R. Stein
1988

China
Menglung, Yunnan Prov.

Catalogue #1-111 (Accn. 12781)

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1988

accn. 12781

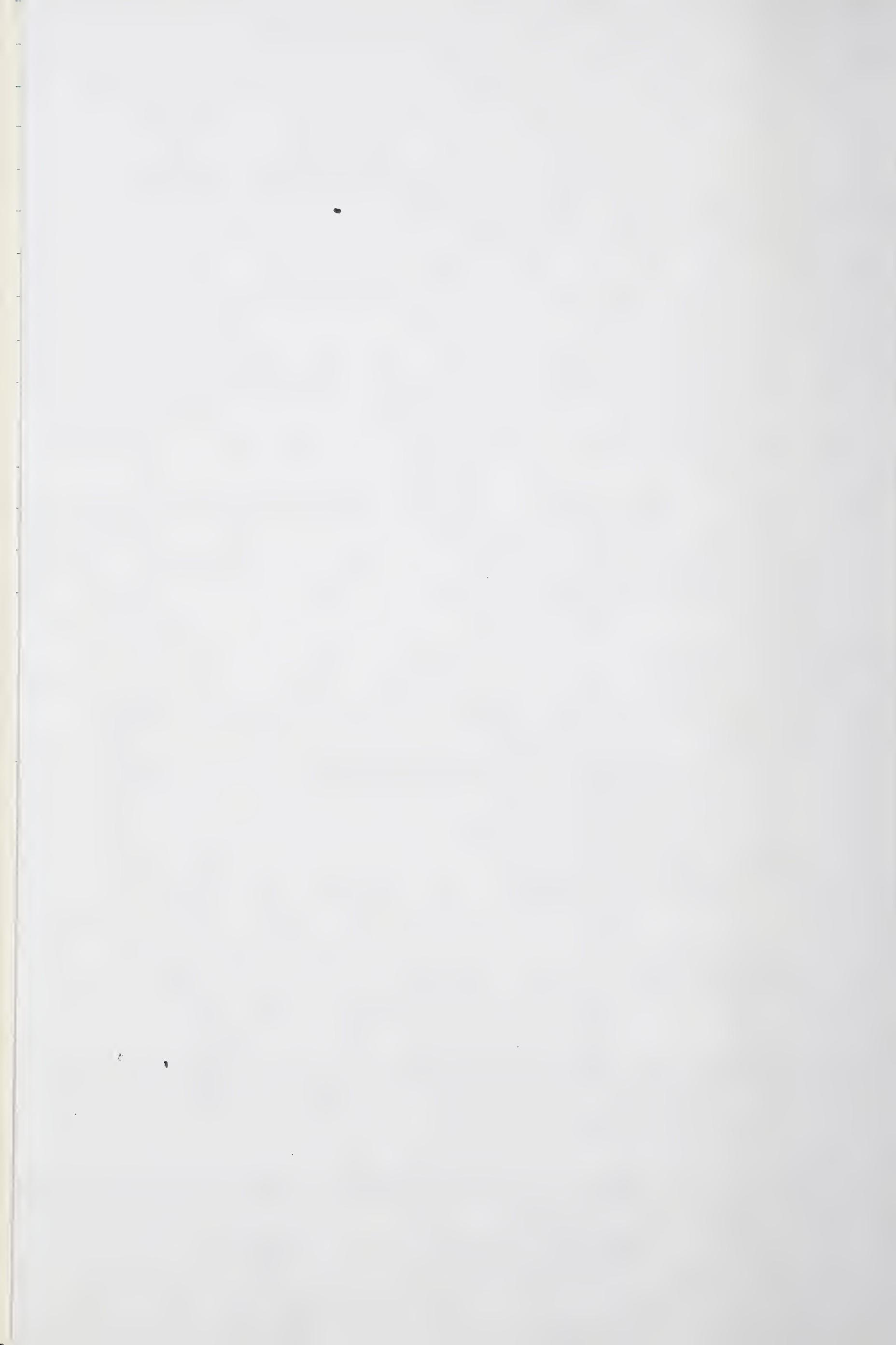
ca. 2 km. from Menglung, Inst. of Ecology Field Sta.,

3 Aug. Menglung, Yunnan, PRC

1. Y10600 *Rousettus*, ♂ 110 - 10 - 18 - 20 = 50g forearm 65mm.
alcoholic, tissues - BRS calcar 6mm.
ectoparasites - A.G.Cleveland, Texas Wesleyan
stomach/intestines - G. Hickling, New Zealand
2. Y10601 *Rousettus* ♂ 121 - 16 - 21 - 23 = 62gr. forearm 76mm
alc., tissues - BRS calcar 7mm
ectos - A.G. Cleveland
3. Y10602 *Rattus rattus* (?) ♂ 310 - 148 - 30 = 19 = 78gr.
ectos - G. Hickling, New Zealand scrotal
Gut length - " " "
tissues, alc. - BRS
eyes - V. choate

2094204. SNAKE *Coluber spilotes* SV 22.3 mm
killed 3 Aug 88 tissues - minimal
coll. by Reservoir Dam, Huizhou, Beijing Municipality
29 July 1988 (50 km. NE Beijing)
ventral surface of tail scraped

4. Y10603 *Rousettus* ♂ 105 - 13 - 20 - 20 = 44gr. forearm 65mm.
alc., tissues - BRS calcar 6mm
ectos - J. Martin



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1988

Menglung Field Sta. - CONT.

3 Aug. 6. Y10604 *Rousettus* ♀ 102-18-21=37g. forearm 64mm
calcar 4mm
alc., tissues - BRS
ectos - M. Cleveland

7. Y10605 *Rousettus* ♂ 110-17-16-18=35g. forearm 65mm
calcar 5mm
alc., tissues - BRS
Ectos - J. Martin

8. Y10606 *Rousettus* ♀ 108-14-15-18=33g. forearm 65mm
calcar 5mm
alc., tissues - BRS
Ectos - J. Martin DEAD IN BAG

9. Y10607 *Rousettus* ♂ 138-22-21-19=70g. forearm = 75
calcar = 6mm
alc., tissues - BRS
Ectos - J. Martin DEAD IN BAG

10. Y10608 *Rousettus* ♀ 118-15-17-19=41g. forearm = 65
calcar = 6mm.
alc., tissues - BRS
Ectos - J. Martin

11. Y10609 *Scotophilus heathii* ♂ 144-61-13-18=36g.
forearm = 60mm ~~tail + wings = 6~~
+ one vial blood
alc., tissues - BRS
Ectos - M. Cleveland

12. LIZARD *Hemidactylus* sp.

took tissues - minimal

on window ledge of Field sta. bldg. - 8:00pm.

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Rubber Trees, Tea, + Coffee Plant Cultivated "Forest" adjacent to
small patch of 2° forest, Kunming Agric. Exper. Sta., Menglung, Yunnan

- Aug. 13. TOAD coll. 4 Aug. Killed 5 Aug.

209425

tissues, alc. - BRS + blood

In laboratory at Kunming Experimental Sta., Menglung, Yunnan
2094234. small LIZARD *Hemidactylus* sp.

= no tissues

In bedroom at Kunming Experimental Sta., Menglung, Yunnan

15. *Hipposideros bicolor* ♀ 73-27-6-22 = 68g. forearm 45

Y10610 - skin + skull - A.G. Cleveland
+ partial skel.
tissues - BRS H, L, Muscle

~~REMOVED FROM RECORD~~

Primary Forest Area #1, Km. 51-52 on road to Menglung,
Yunnan Prov., PRC

16. SMALL TOAD *Microhyla* sp.

209426

- no tissues

17. Y10611 *Dremomys rufigenus* ♀ 370-180-47-24 = 204g.

tissues - BRS (2 vials)

skin + skull - A.G.C.
+ partial skel.

gut length - G. Hickling

~~REMOVED FROM RECORD~~ eye lens - V. Choate KILLED BY HUNTER

In bedroom at Kunming Experimental Sta., Menglung, Yunnan

209422 18. GECKO *Hemidactylus* sp.

- no tissues

6 Aug. Near Bridge by Laboratory, Kunming Exper. Sta., Menglung, Yunnan

19. *Rattus nitidus* (?) ♀ 307-159-32-18 = 85g.

tissues, alc - BRS (2 vials) 6 placental scars (5+1)

stomach - G. Hickling nipples regressed.

Y10612 NO ECTOS repro. organs - A.G.C.

fein, B.R.

Primary Forest Area #1, Kunming Exp. Sta., Menglung, Yunnan

6 Aug. 20. Y10613 ~~Niriventer~~ ^{Niriventer} ~~niriventer (?)~~ 324-188-31-25 = 66 gr.

sharply bicolored tail

nipples - 2 pr. pectoral

tail > HB by ~30%

2 pr. pelvic

spiny fur, buff belly

postparturient - no placenta

→ - skeleton - body had started to decay

scars visible

NO TISSUES

G. Hickling - guts

Primary Forest Area #2, Kunming Exp. Sta., Menglung, Yunnan

7 Aug. 21. Y10614 Cynopterus sphinx (?) ♀ 89-9-14-18 = 25 gr.

skin + skull - A.G.C.
+ partial skele.

forearm 66 mm
calcar 4.5 mm.

tissues. - B.R.S.

NO ECTOS (dead in bag) - prep. 8 Aug. '88

22. Y10615 Rattus

♀ 103-110-15-17 = 45 gr.

ECTOS - J. Martin

forearm 69 mm
calcar 5 mm

skin, skull, partial skel - A.G.C.

tissues - BRS

8 Aug. 23. Y10616 Suncus murinus ♀ 163-79-15-10 = 16 gr.

skin + partial skel - A.G.C.

tissues - BRS

gut meas. - G. Hickling

NO ECTOS

24. Y10617 Rattus

♀ 340-165-32-20 = 112 gr.

skin + partial skel - A.G.C.

tissues - BRS

gut - G. Hickling

ECTOS

Wh. belly, tail black, dorsum hindfl. grey w/ wh. edges

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1988

By kitchen at Kunming Exp. Sta., Menglung, Yunnan

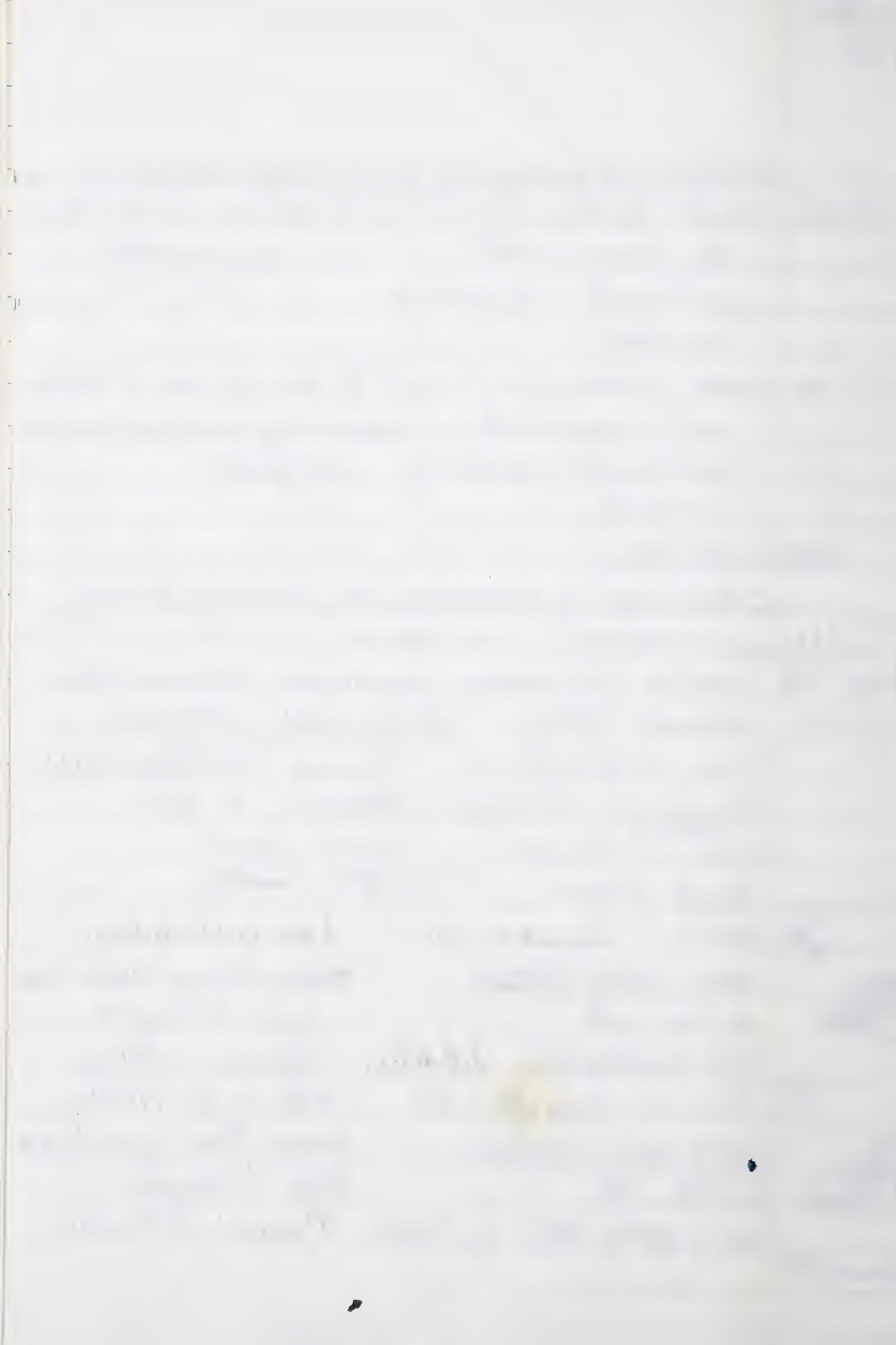
25. Y10618 Rattus ♂ 334-182-32-24 = 142 gr.
alc., tissues - BRS very scrotal
gut length - G. Hickling
NO ECTOS
26. Y10619 Rattus ♀ 301-152-29-21 = 87 gr.
alc., tissues - BRS nipples 3 inguinal prs., 2 pectoral
gut length - G. Hickling perforate
NO ECTOS

~~area small station~~

1° Forest area #1, Kunming Exp. Sta., Menglung, Yunnan

- 209424 27. small SKINK - no tissues *Tropidophorus* ~~bedone~~
9 Aug 28. Y10620 *Rhyzomys pruinosus* ♂ 430-115-54-22-
Collected 4 Aug MENG LUNG STATION
Ectos J. Martin Tissues B. Stein (13)
Chromosomes V. Choate Alcoholic B. Stein
^{took fromur}
Eyes V. Choate Endos AGC
Testes 20 mm Bot from hunters

- 29 Y10621 *Rousettus leu* ♀ 105-10-14-23-40 g
MENG LUNG STATION forearm: 63 mm calcar: 7 mm
No Ectos J.M. Eyes V. Choate
Skin & partial skel J. Martin Tissues J. Martin
30. Y10622 *Rousettus leu* ♂ 116-12-21-19-52 g
MENG LUNG STATION forearm 72 mm calcar 6 mm
No Ectos J.M. Eyes V. Choate
Skin & partial skel J. Martin Tissues: J. Martin
area #2



ein, BR.
1988

9 AUG 1988

31. Y10623 *Rousettus leu.* ♂ 120/0-16-18-40g
MENG LUNG STATION forearm: 66mm cal/car: 7mm
Ectos J. Martin Skin & partial skel: J. Martin
Eyes V. Choate Tissues: J. Martin
Chromosomes V. Choate
- 0 AUG 1988 32. Y10624 *Pipistrellus mimus* ♀ 78-34-7-10-6g
MENG LUNG STATION forearm 32.3mm
No Ectos skin Skin & partial skel: A.G.C.
Chromosomes V. Choate Tissues: J. Martin
Eyes V. Choate
33. Y10625 *Rousettus* ♀ 123-11-22-18 forearm 74.9
tissues - BR8 calcar 7 ECTOS - J. Martin
skin, skull, partial skel - A.G.C. prep. E. Verwers
chromo, eyes - V. Choate
34. Y10626 *Rousettus* ♂ 120-9-20-19 forearm 73mm
alc. ~~preserved~~ - A.G.C. calcar 7mm
ECTOS - J. Martin prep. A.G.C.
NO Tissues
35. Y10627 *Rattus rattus* ♀ 345-172-34-23
tail all dark, belly white; 3 pr. pectoral, 3 pr. inguinal.
Area #2
tissues, alc - BR8
eyes, chromo - V. Choate
gave birth in trap to 5 yg (2♂, 3♀)
Dorsum of lg. black bristles mixed w/ hispid-brown
coloration
4 yg. preserved in McDonald's fixative as Y10627a-e
Repro-tract preserved in McDonald's formal.

ein, BR.
1988

→ *Macroglossus sobrinus* - K. Koopman 2/90

Area #2, Kunming Exp. Sta., Menglong, Yunnan Prov., PRC

Aug. 36. Y10628 *Cynopterus sphinx* (?) ♂ 185-10-12-17 = 22 gr.

~~tissues~~, alc. - BRS forearm = 47 mm
calcar = 3 mm

Dead in Net - not picked out for almost 24 hrs.

No ectos

37. Y10629 *Rousettus leu.* ♂ 100-11-15-24 = 47 gr.

alc. tissues - BRS forearm = 73 mm
calcar = 6 mm

No ectos - dead in net.

(tissues may be a bit deteriorated).

wh. along edges of ear, rusty at throat

2 Aug. Rubber tree, coffee, tea exper. area, Kunming Exp. Sta., Yunnan

38. Y10630 *Cynopterus*

♀ 110-9-11-22 = 63 gr. forearm 75 mm
calcar 6 mm

ECTOS - A.G.C.

pregnant - lg. yg. + 2 lg. abdominal nipples

yg. preserved as Y10630a in McDowell's Fixative

skin + partial skel + skull - A.G.C.

tissues - BRS (2 vials)

REASON FOR PRESERVATION Eyes - V. Choate

1^o Forest Area #2, Kunming Exp. Sta., Menglong, Yunnan

39. Y10631 *Cynopterus sphinx* ♀ 108-11-15-22 forearm 75
calcar 5

ECTOS - A.G.C. (+ 1 leech) wt = 53 gr.

2 mid abdominal mammae, preg., 1 yg. in sac -
preserved as Y10631a in McDowell's Fixative

tissues, alc - BRS

40. ~~Hipp~~ Y10632 *Hipposideros*

♂ 108-17-12-25 = 19 gr.
forearm 60

dorsum lt. brown, darker on ends of hair.

ECTOS - A.G.C.

chromo., eyes - V. Choate

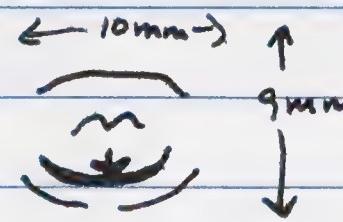
tissues - BRS

skin, skull, partial skel - A.G.C. testes 5.0 mm

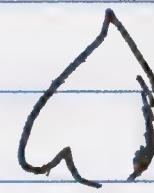
Stein, BR.
1988

12 Aug.

Y10632 CONT.



EAR



lt. brown
fur on inside
ant. margin
of ear.

Bat Cave, Menglung, Yunnan Prov.

41. Y10633 *Rhinolophus*
ECTOS - A.G.C.

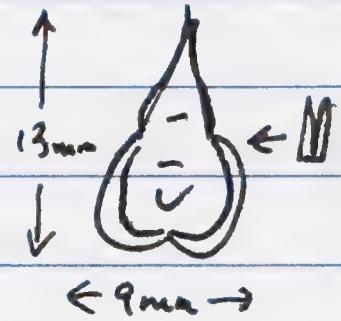
♀ 70-20-7-18 = 6.5 gr.
forearm 42 mm

chromo, eyes - V. choate

skin + skull + partial skele - A.G.C.

tissues - BRs

velvety dorsum, lt. brownish



EAR



Bat Cave, Menglung, Yunnan Prov.

3 Aug. 42. Y10634 *Rhinolophus*

♂ 65-19-6-19 = 7 gr. forearm 45

ECTOS - A.G.C.

skin + ^{partial} skele + skull - A.G.C.

eyes - V. choate

tissues - BRs

animal dead in net over top of cave.

~~maxillary teeth~~

lg. capsule on rt. ear
opened to reveal sm.
larval form.

(Y10633 + 34 - same sp. ^{prob.})

Area #2, Menglung, Yunnan Prov.

43. Y10635 *Cynopterus sphinx* ♀ 110-4-13-18.5 = 40 gr
ECTOS
forearm 71
calcar 7

skin, skull, partial skele - A.G.C.

tissues - BRs

caught 12 Aug.

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1988

Bat Cave, Menglong, Yunnan Prov.

- 13 Aug. 44. Y10636 *Rhinolophus* ♀ 68-19-6-19 = 8g.
ECTOS foream 45
eyes + chromo - V. Choate
tissues - BRS skin, skull, ^{partial} skel - AGC
lg. capsule on on left + ear - hard, calcified, will not open. Another capsule on left pseudotragus + capsule saved w/ the larvae.
45. Y10637 *Hipposideros armiger* ♀ 155-62-18-32 = 46⁶⁵
ECTOS foream = 90
chromo - V. Choate
tissues - BRS skin, skull, ^{partial} skel - AGC
a cobra-head-like protuberance, paired, inned. cranial to vaginal opening!? Only right one developed, left one diminutive. Removed from study skin + put in McDowell's fixative.
46. Y10638 *Pipistrellus minimus* ♀ 55-30-7-12 = 3g.
Skin + skull + partial skel - AGC. foream - 35 mm
no tissues
ECTOS
chromo - V. Choate
47. Y10639 *Rhinolophus* ♀ 70-24-9-18 = 8g.
Skin + skull + partial skel - AGC. foream - 44.5
tissues - BRS DIED IN BAG
ECTOS
3 capsules found at base of rt. ear; removed.



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Area #2 Menglung, Yunnan Prov.

13 Aug. 48. Y10640 *Rattus rattus* ♀ 370-220-32-25 = 138g.

coll. 12 Aug.

3 pr. mammae

skin, skull, + partial skel - C. Wogencroft (A.G.C.)
tissues - BR8 3 vials

gut - G. Hickling

repro. tract - AGC

EYES, chromo - V. Choate

49. ~~Menglung~~ Y10641 *Rousettus leu.* ♀ 125-16-22-20 = 55g.

forearm = 82 mm

coll. 12 Aug.

1 pr. mammae

tissues, alc - 2 vials - BR8

ECTOS

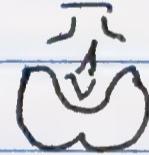
#1 Bat Cave Menglung, Yunnan Prov.

50. Y10642 *Rhinolophus rouxi* ^{sinicus} ♀ 70-25-10-18 = 8g.

forearm 47 mm

ECTOS

alc., tissues - BR8 (A.G.C. may want for ID)



51. Y10643 *Rousettus*

♂ 98-11-20-17 = 31g.

NO tissues - DEAD in NET. I was out in field.

yg. bat

ECTOS

skin + partial skel + skull - AGC.

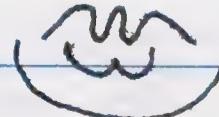
52. Y10644 *Aselliscus stoliczkanus*

♂ 78-30-5-11 = 5g.

forearm 42 mm

NO tissues

skin, skull, partial skel - AGC



ECTOS

Wh. breast, dorsum lt. Brown w/ base hairs whitish

Stein, BR
1988

#2 Bat Cave, ~10 km. down river from cave #1

14 Aug. 53. Y10645 Taphozous ♀ 130 - 23 - 10 - 28 = 35 gr.
ECTOS forearm 76

Skin, skull, partial skel. - C. Wogenraft (A.G.C.)
tissues - BR8

54. Y10646 Tadarida ♀ 116 - 45 - 16 - 18 = 25.5 gr.
forearm = 49
preg. = Y10646a preserved in McDowell's fixative
wrinkle lip

Skin, skull, partial skel - AGC.
tissues - BR8

55. Y10647 Tadarida ♂ 120 - 43 - 11 - 20 = 22 gr.
forearm 49 mm
ECTOS

Skin, skull, partial skel - AGC

56. Y10648 Taphozous ♀ 121 - 25 - 7 - 20 = 39 gr.
forearm 75
calcar 20
ECTOS

Skin, skull, partial skel - AGC

57. Y10649 Tadarida ♀ 119 - 44 - 11 - 22 = 21.9 gr.
forearm 48
calcar = 9
wrinkle lip

Skin, skull, skel - C. Wogenraft } (A.G.C.)

58. Y10650 Tadarida ♀ 135 - 41 - 9 - 20 = 25 gr.

preg.

alc - A.G.C.!

NO tissues

ECTOS

forearm 49

calcar - not obs.

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1988

#2 Bat Cave CONT.

- Aug. 59. Y10651 *Chaerephon plicatae* ♂ 114-40-11-21 = 22g.
alc., Tissues - BRS foream 50
alc., Tissues - BRS calcar 10
ECTOS - Dead in net
60. Y10652 Taphozous ♂ 120-28-11-25 = 32g.
ECTOS foream = 73
alc., tissues - BRS calcar - 7(?)
NO tissues, alc - AGC. Dead in net
61. Y10653 Taphozous ♀ 120-31-14-25 = 34g.
ECTOS foream 74
alc., tissues - BRS calcar 22
Dead in net
62. Y10654 Taphozous ♀ 116-25-16-24 = 32g.
ECTOS foream 74
alc., tissues - BRS calcar 22
Dead in net
63. Y10655 Taphozous ♀ 130-28-12-27 = 40g.
ECTOS foream 75
alc., tissues - BRS calcar 20
Dead in net
preg. lactating
64. Y10656 Taphozous ♂ 123-22-10-25 = 40g.
ECTOS rust-colored fur foream 75
ventral surface of neck calcar 21
alc., tissues - BRS Dead in net
65. Y10657 Taphozous ♂ 123-28-13-26 = 32g.
alc., tissues - BRS foream 75
ECTOS calcar 21
Dead in net
66. Y10658 Taphozous ♀ 117-25-13-25 = 32g.
ECTOS foream 74
alc., tissues - BRS calcar 20
Dead in net
67. Y10659 Taphozous ♀ 125-27-16-23 = 31g.
ECTOS foream 74
alc., tissues - BRS calcar 19
Dead in net

fein, BR
1988

#2 Bat Cave, CONT.

- 4 Aug. 68. Y10660 Taphozous ECTOS alc., tissues - BRS Dead in net ♀ 118-27-12-24 = 30g.
forearm 75
calcar 19
69. Y10661 Taphozous ECTOS alc., tissues - BRS ♀ 114-25-11-23 = 32g.
forearm 73
calcar 19
70. Y10662 Taphozous coll. 14 Aug. ECTOS alc., tissues - BRS ♀ 123-26-11-26 = 29g.
forearm 71
calcar 20
71. Y10663 Taphozous coll. 14 Aug. ECTOS skin, skull, partial skull - AGC. tissues - BRS + muscle ♀ 125-27-10-25 = 33g.
forearm 74
calcar 19
72. Y10664 Taphozous ECTOS coll. 14 Aug. tissues - BRS + muscle ♀ 116-20-9-23 = 29g.
forearm 72
calcar
73. Y10665 *Aselliscus stoliczkanus* ♂ 75-36-6-11 = 4.5g
coll. 14 Aug. - dead overnight foream 41
calcar 7
Alc. ~~██████████~~ - AGC
photo of face - AGC.
Wd. belly, deepest ears + eyes, ears almost tubular
no tissnes!

Stein, BR
1988

~~Shuihe River mouth~~. Area #2, Menglung

- 15 Aug. 74. Y10666 Rhinolophus ♀ 74-18-6-18 = 7.5 gr.
coll. 14 Aug. - dead overnight foream 45 mm
alc. - AGC. calcar 7 mm
no tissues

~~Shuihe River mouth~~ This spec. has 3 hard calcaneous capsules left intact.

Area #2, Menglung, Yunnan Prov.

75. Y10667 Rousettus ♀ 133-18-21-20 = 52 gr.
coll. 14 Aug. - dead foream 25
alc., tissues - BRS calcar 7
chromo - V. Cheate

#2 Bat Cave

76. Y10668 ~~Tadarida~~ ^{chaerephon} plicata ♀ ^{ligata} 110-36-11-20 = 22 gr.
coll. 14 Aug foream 48
peeg. - fetus preserved as Y10668 calcar 7
ECTOS
tissues, alc - BRS + 1 vial blood!

77. Y10669 Tadarida ♂ 118-48-10-18 = 20 gr.
coll. 14 Aug. foream 50
ECTOS
skull, skull, + partial skull - AGC.

tissues - BRS + muscle
chromo - V. Cheate

78. ~~Y10670~~ ^{chaerephon} Tadarida plicata, ^{plicata} ♂ 114-40-9-21 = 20 gr.
coll. 14 Aug. foream 48
ECTOS
tissues, alc - BRS
chromo - V. Cheate

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1988

#2 Bat Cave

15 Aug. #1. Y10671 ~~Tadarida~~ ^{chaerephon} plicata ♀ 115-43-10-21 = 24 gr.

coll. 14 Aug. preg. - AGC has fetus forearm 48
calcar 7

Chromo - v. choate - from sternum

alc., tissues - BR8 + muscle + 1 vial blood

ECTOS (chest gone - perhaps should make skel.)

80. Y10672 ~~Tadarida~~ ^{chaerephon} plicata ♀ 117-42-11-20 = 25 gr.

coll. 14 Aug. forearm 49.5
calcar 11

preg. - fetus preserved by A.G.C.

ECTOS

alc., tissues - BR8

81. Y10673 ~~Tadarida~~ ^{chaerephon} plicata ♀ 115-41-9-21 = 25 gr.

coll. 14 Aug.

forearm 50
calcar -

Preg. - fetus used to extract chromo.

tissues, alc. - BR8 + 1 blood vial

82 Y10674 ~~Tadarida~~ ^{chaerephon} plicata ♀ 109-42-9-19 = 24 gr.

coll. 14 Aug.

forearm 48
calcar -

Preg. - fetus preserved in formalin - BR8

alc., tissues - BR8 + 1 blood vial

ECTOS

83 Y10675 ~~Tadarida~~ ^{chaerephon} plicata ♀ 110-36-9-22 = 22 gr.

coll. 14 Aug.

forearm 49
calcar -

alc., tissues - BR8 - spec. bloated!

Dead in bag?

↖ no tissues

ECTOS

84 Y10676 Tadarida ?

♂ 114-46-10-21 = 20 gr

forearm 48
calcar -

ECTOS

Skin, skull, partial skel - AGC
tissues - BR8 + muscle

tein, BR
1988

#2 Bat Cave

- 15 Aug. 85 Y10677 Tadarida ^{Chaerephon} plicata ♀ 114 - 37-12-20 = 19g.
forearm 48
calcar —
ECTOS
alc., tissues - BRS + 1 blood vial
coll. 14 Aug.
- 86 Y10678 Tadarida ^{Chaerephon} plicata ♂ 115 - 41-10-23 = 18g.
forearm 50
calcar —
ECTOS
alc., tissues - BRS - some blood in w/ tissues
87 Y10679 Tadarida ^{Chaerephon} plicata ♀ 121 - 47-13-20 = 27g.
forearm 49
calcar —
coll. 14 Aug.
ECTOS
alc., tissues - BRS
preg. - fetus preserved in formalin - BRS
- 88 Y10680 Taphozous ^{Hanuman} ♂ 116 - 32-16-24 = 30g.
forearm 72
calcar 20
coll. 14 Aug.
ECTOS
chromo (forearms) - V. Choate
alc., tissues - BRS (some blood w/ tissues)
- 89 Y10681 Taphozous ^{Hanuman} ♂ 118 - 31-14-26 = 28g.
forearm 72
calcar 20
coll. 14 Aug.
ECTOS
chromo - V. Choate (forearms)
alc., tissues - BRS (some blood w/ tissues)
- 90 Y10682 Taphozous ^{Hanuman} ♂ 118 - 30-12-24 = 31g.
forearm 72
calcar 20
ECTOS
skin, skull, ^{partial} skel - AGC
tissues - BRS + muscle + some blood



Stein, BR
1988

#2 Bat Cave

- 15 Aug 91 Y10683 Taphozous coll. 14 Aug ECTO chromo (forearm) - V. Choate alc., tissues - BRS (Some blood w/ tissues)

♀ 123-35-15-27 = 33 gr.
forearm 74
calcar 20

92 Y10684 Taphozous coll. 14 Aug ECTOS lactating - nipples in upper pectoral area skin, skull, partial skel - AGC.

* cinnamon brown pelage → diff. color phase?
diff. sp.?

tissues - BRS w/ muscle + some blood eyes - v. choate

93 Y10685 Taphozous coll. 14 Aug. ECTOS (lice) lactating - nipples in upper pectoral area

* cinnamon brown pelage skin, skull, + partial skel - AGC

tissues - BRS + muscle eyes - v. choate

94 Y10686 Taphozous coll. 14 Aug. ECTOS alc., tissues - BRS

♂ 119-30-13-25 = 32 gr.
forearm 74
calcar 21

Area #2, Menglun, Yunnan Prov.

95 Y10687 Cyopterus ECTOS alc., tissues - BRS + 2 vials blood

♂ 105-10-17-21 = 46 gr.
forearm 73
calcar 7



Hain, BR
1988

Area #3, Menglung, Yunnan Prov. - among rocks
steep slope

15 Aug 96. Y10688 ~~Rattus(?)~~ ♀ 320-180-28-22 = 70g.

2 pr. pectoral + 2 pr. abdominal mammae
tail bicolored, distal 1/4 bleached white,
tip of tail w/ dark tuft, T > HB
dorsal surface brownish grizzled w/ black
HF + forefeet white dorsally
white ventral w/ distinct demarcation laterally
throat white

gut length - G. Hickling repro. tract w/
tissue - BRS + muscle (2 vials) 4 embryos

skull (only?) - A.G.C. (for mussels to I.D.)

EYES - V. Choate chromo (femur) - V. Choate

97. Y10689 ~~Rattus(?)~~ ♂ 320*158*30-24 = 106g.
* tail broken - tip off

gut length - G. Hickling

tissue + alc - BRS

ECTOS

Same body description as Y10688

EYES + chromo - V. Choate (femur)

~~all eyes grossly degenerate~~ eye w/ cataract

98 Y10690 ~~Rattus~~ ~~rattus~~ ♀ 380-210-33-24 = 122g.

tail monicolor, bl. scaly, T > HB

nipples - 2 pectoral, 3 pelvic

eyes - V. Choate + chromo (sternum)

gut - G. Hickling

alc., tissues - BRS

rt. hind ft. caught in Sherman trap
fur grizzled, wh. belly



Stem, BR
1988

Area #3, Menglung, Yunnan Prov. - CONT.

6 Aug. 99 Y10691 Niviventer (?) ♀ 318-176-29- = 68g.

golden brown 2 pelvic, 2 pectoral mammae
bicolor tail, buff belly.
light dorsum on HF

fur w/ spines dorsally

nibbled by ant → no ear measurement

collector = BR8

alc, tissues - BR8 + muscle

4 embryos

→ caught in snap trap in sparsely wooded area
guts - G. Hickling

100 Y10692 Niviventer! fulvescens ♂ 340-190-31-20 = 88g.

coll. 15 Aug.

ECTOS

dorsal coarse black guard hairs on
rust brown, ventral creamy. tail
bicolored. cheeks light brown.

tissues, BR8 (2 vials) Tops of feet brown w/ ~~white~~ wh. margin

gut - G. Hickling

skin, skull, partial skel - AGC

eyes, chrono - V. Choate

Bat Cave #4, ca. 10km E. Menglung, ^{on opp. side of slope} _{of cave #2}

101 Y10693 Hipposideros amoenus ♀ 165-58-18-34 = 57g.

ECTOS

forearm 93
calcar 23

alc., tissues - BR8

chrono - V. Choate (forearm)

brown ~~gray~~ body color on dorsum; w/ cobra

102 Y10694 Hipposideros amoenus ♂ 162-55-16-33 = 45g.

grey dorsum

forearm 93
calcar 21

ectos

stein, BR
1988

Bat Cave #4, CONT.

6 Aug.

tissues - BRS

chromo - V. Cheate

skin, skull, partial skel - AGC

103 Y10695 *Hipposideros armiger* ♀ 159-58-16-34 = 56g_g

ECTOS

forearm 93

calcar 20

tissues - BRS

skin, skull, partial skel - AGC

eyes, chromo - V. Cheate

dark brown dorsum, lt. brown venter

104 Y10696 *Hipposideros armiger* ♀ 157-67-19-32 = 55g_g

dark brown dorsum

forearm 94

calcar 22

ECTOS

alc., tissues - BRS

105 Y10697 *Hipposideros armiger* ♀ 162-65-11-35 = 45g_g

^{grey} dark brown dorsum

forearm 97

calcar 19

ECTOS

alc., tissues - BRS

106 Y10698 *Hipposideros armiger* ♀ 160-62-12-36 = 54g_g

dark brown dorsum

forearm 97

calcar 20

ECTOS

alc., tissues - BRS

107 Y10699 *Hipposideros armiger* ♂ 155-60-16-33 = 57g_g

ECTOS

forearm 99

calcar 22

alcoholic - AGC (wanted "complete" spec)

~~Hipposideros~~

NO tissues

dark brown pelage

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1988

- Aug. 108 Y10700 *Hipposideros armiger* ♀ 155-58-11-35=50g.
ECTOS foream 91
calcar 19
- eyes, chromo - V. Choate
skin, skull, partial skel - AGC 8817
tissues - BR8
- cinnamon brown pelage
- 109 Y10701 *Hipposideros armiger* ♀ ¹⁵³ ~~149~~-58-16-34=46g.
alc, tissues - BR8 foream 93
calcar 23
- no ECTOS - dead in bag
- grey pelage
- 110 Y10702 *Hipposideros armiger* ♂ 157-61-17-35=53.5g.
ECTOS foream 98
calcar 23
- alc, tissues - BR8
- dark brown
- 111 Y10703 *Hipposideros armiger*, ♀ 162-62-16-35=52
ECTOS foream 92
calcar 21
- dark brown
- alc, tissues - BR8

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1988

Elevation / Lat. / Long.

15 Aug. From C. Wozencraft

Menglung	21° 55' N	101° 17' E	ca. 600 m.
Area #1	21° 57' N	101° 11' E	ca. 650 m.
Area #2	21° 53' N	101° 18' E	700 m.
Area #3	21° 57' N	101° 20' E	ca. 950 m.
Station	21° 55' N	101° 16' E	ca. 600 m.

#1 Bat Cave 21° 53' N 101° 18' E

limestone #2 Bat Cave 21° 55' N 101° 20' E

#3 Bat Cave was in area #3 - we netted there
one night but no captures

granite #4 Bat Cave - lg. Hipposideros armiger - on
opp. side of mt. from cave #2

Drive from Menglung to Kunming

- 1st night Sizmao (570 km.)

1st lunch Tun Guan 通关

- 2nd night Yenjiang 元江

2nd lunch - Yu Xi Shan

B.R. Stein
1988

Journal

China: Menglung, Yunnan Prov.

tein, B.R.
1988

2 Aug. ca. 2 km. outside Mengla^{Yung}, Institute of Ecology, Academia Sinica

Field Station, Mengla^{Yung} Yunnan Prov., PRC.

Drove south from Kunming ~~700~~⁶⁹⁸-712 km., turned east on 1st major/only turnoff. Continued ca. ~~60~~⁶⁵ km. to field station. Arrived about 7:00pm. About 9:00pm split into 3 groups - one set 3 lg. live traps for carnivores, one set up a mist net, and ours set out 2 lines of Victor + museum specials. Used p.b. but expect little as ants will get it unless we have more substantial bait.

Drive in was continual up + down over the mountains. This is obviously rainforest but the extent of cultivation is enormous (and impressive in view of the human power used to terrace the hillsides).

Brief intermittent rain showers along the way.

Will be able to assess vegetation in the immed. vicinity of the station until morning.

Actually flew from Kunming to Sgmao + drove from Sgmao to station. However, km. markers are from Kunming. Flight was prop. plane flying ~5,000' alt.; took 1 $\frac{1}{4}$ hrs. Sgmao is the southernmost airport in China.

3 Aug. Up at 7:15 am. to check traps. Because China has no time zones it is still dark. We must be ca. 2 hr. west of Beijing in terms of the sun. Went to see where Art had set up bat nets. Must have had 6 Rousettus - but he is letting them go! He checked them once, about

Stein, BR.
1988

3 Aug. an hour after he put them up + then left them all night. Can't believe he's letting stuff go — he says they're so common in Yunnan! Hope we can change his mind. He wants everything live for ectoparasites and may frown on our snap trapping. graham thinking of one Niviventer or traps we set at the last minute under the bridge by the main building. He wants guts, I'll tissue + then pickle.

We are definitely not in primary forest altho we did seem to drive through such an area about 10min. before arriving here. Also the Sustitute has control over such an area which they did / would not even let us look at last year but are willing to this year. Nothing will probably be done until Wu delin gets here tonite. Art is now negotiating to get some lab space set up so we can begin processing animals. With the Chinese everything is one delay after another.

The area where our traps were set has palms, 6' grasses, and rubber trees being tapped. The bat nets went up in an area that had been cleared. At 2:30 we were to go to 1° forest - instead got a tour of rubber, tea, coffee trees in the experimental station. Were finally taken to a small area of 2° forest to trap. Set out Shermans, Victor's, Museum specials + one lg., high bat net. Won't be

Stein, B. R.
1988

3 Aug able to check them until tomorrow! Am tissuing and pickling this morning's bats + rat + the Beijing snake.

4 Aug. Caught a small Anolis-type lizard in the lab last nite. Tried to tissue it but there just wasn't much there.

This a.m. we were taken to our first area of primary forest - back out along the road we came in on, b/w Km. marker 51 + 52. A really nice area; spent about 1½ hr. walking the trail. After lunch it was to primary forest area #2 - about 2 km. down the road as it continues past the entrance to the Institute. Also a nice area, but muddier. Spent about 1¾ hr. going along the trail - this time we brot some traps; set up a mist net. Not too many as we weren't sure what the area was like. We finished up at 4:00pm. Everyone else was ready to go back but Chris + I took 30 traps + went back + set them in area #1. It took only 1¾ hr. Both areas had streams but were relatively dry for rainforest. Have had no rain since we arrived + this is supposed to be monsoon season. Saw what was tentatively ID'ed as civet scat in area #1 - that area has lots more fruiting trees than area #2. Chris claims to have seen a squirrel + 2 "rats" scampering in the trees in area #2. Both have dense vegetation, the latter w/ periodic small clearings +

Hein, B.R.
1988

4 Aug

unusual rock formations. Saw an old termite / ant mound w/ large openings → pangolin had been feeding there in the past.

Bought a bamboo rat from the locals for $\text{6}^{\text{*}}$ yuan! Graham will keep it alive and try to get it to eat so he can measure digestive efficiency, etc. I've asked Art about the possibility of getting one pickled and there seems some hope. One way or another this one will end up as a specimen as Graham has no permits to bring things back to New Zealand. The locals also had 2 large monitor lizards they would have been happy to sell (they're sure we're eating the stuff) but, alas, no permits.

With much fanfare + commotion caught a Hipposideros in the room next to ours last nite. Art wants chromosomes - maybe I'll get the pickle.

5 Aug.

Light rain all night. Split into 2 groups to check traps. Chris + I went back to area number #1 - nothing, altho many of the traps had been sprung. I think it may have been the rain? The 2nd group fared no better, not even bats. From here on in we'll probably concentrate on efforts in area no. #1. We'd reset tonite and add a line of Shermans.

Area #1 at least had more signs of animal life. Still overcast this morning altho no rain.

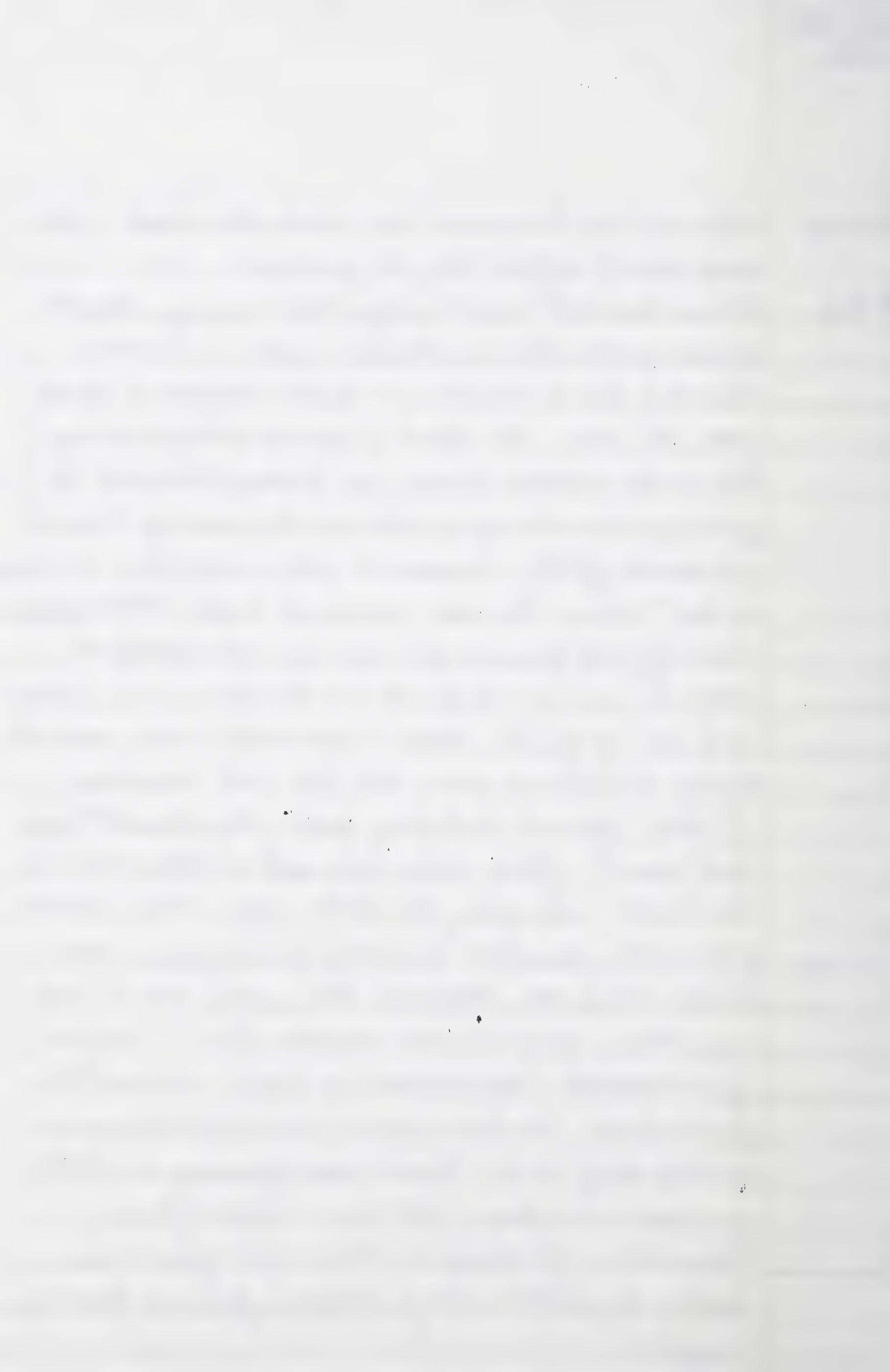
Stein, BR.
1988

5 Aug. Will use the "free time" to pickle the toad + the very small lizard I just grabbed.

6 Aug. Rained hard all night, stopped by morning, started again by the time we checked traps — Nothing! Much of the bait gone or Victor's set off - I think due to rain. The trail is really taking a beating. Back at 10:00 am today (vs. 9:00 am previously to give you an idea of how the mud is making this all so much fun). Lunch at noon, out again ~1:15 pm. to set them. By ~~an~~ 1:30 pm. it began to downpour! Took off my glasses for the day - absolutely no way to see w/ them in the driving rain. Setting is a bit of a joke, there's probably better ways to do it in pouring rain but I'm still learning.

If the forest is full of fruit why should they eat ours? Some may also not be this close to the trail. So far for bait we've tried potato, p.b., oat, peanuts, bananas, pineapple, worms. By the time we reached the river bed it had swollen to 35' + was moving fast! The five of us waded downstream a ways, stowed our gear high, linked arms, + made it across in crotch deep H2O. Driver was cruising a stretch of road looking for us. Such fun.

However, Graham + Chris did find one Rather in pretty sorry shape from a morning trap!

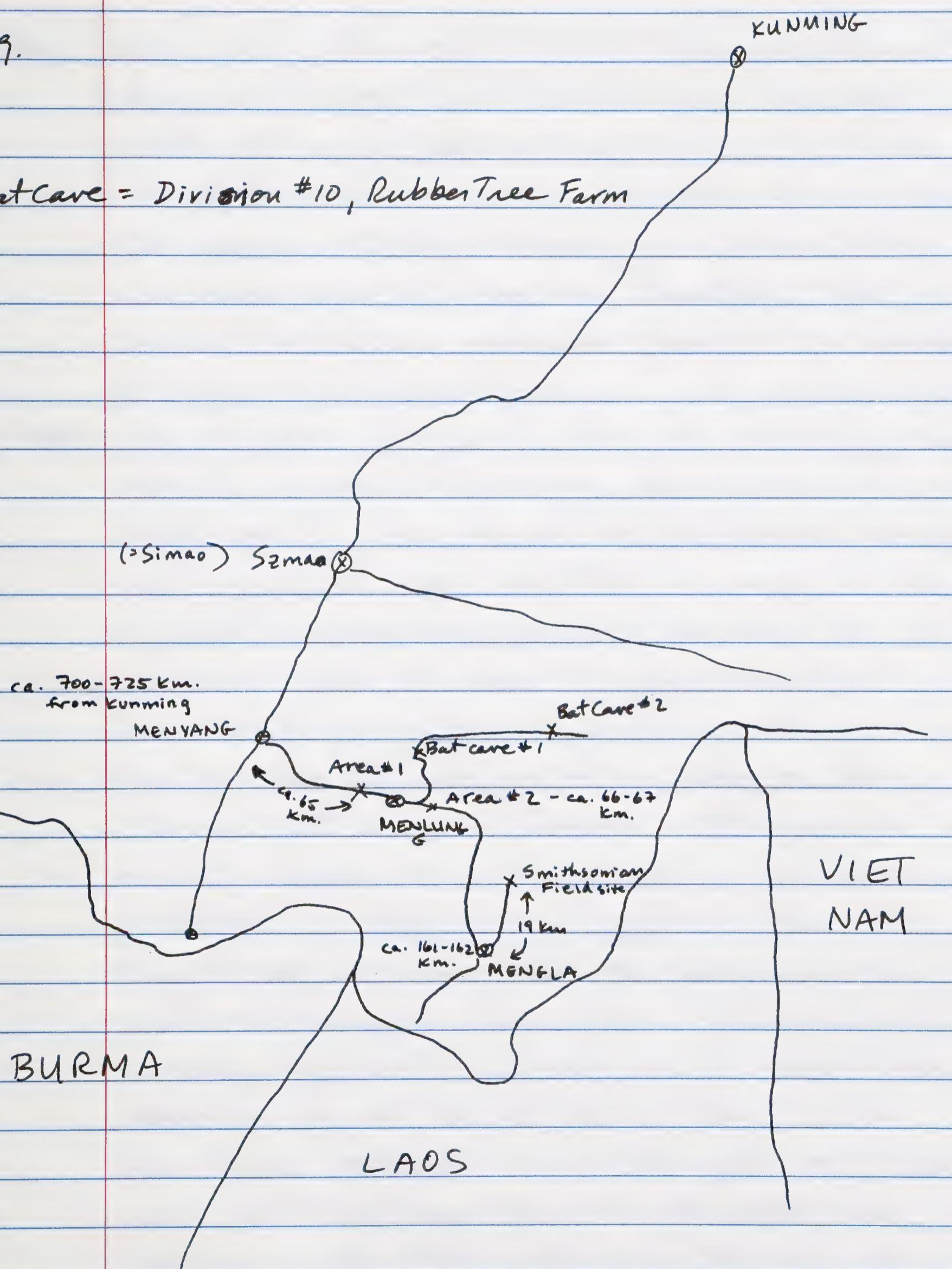


Stein, BR
1988

NOT TO SCALE

6 Aug.

#2 Bat Cave = Division #10, Rubber Tree Farm



Stein, BR.
1988

7 Aug. Rain most of the night. Nothing in the traps at area #1. Some still have the bait untouched. Two bats collected in net at entrance to area #2 - one Rousettus, one Cynopterus - Art says a new sp. from this region. Really discouraging. Decide to try one more night at area one. Reset all traps, moved those w/ any indication of ants or w/ unlikely placement - hope springs...

8 Aug. Rained from 8:00pm on last nite - pouring from about 2:00am till dawn. No way can we check area #1, the river will be too swollen, to say nothing of the trail itself which would be like a giant slotam mud course. Art went to check bat nets at area #2 after breakfast.

The bamboo forest trip is postponed yet again + we've been up to 420 for 24hr, going on 36hr.

Rained till 11:30am. Caught 2 bats again in area #2. After lunch the woman in the kitchen produced a Herpestes javanicus. She had mentioned yesterday that she had one in her yard so Steve gave her a trap. It's small but he may try putting a collar on it nonetheless. Headed out to pull all the traps at area #1. The blue Toyota made it to us in 2km. of the trail, then died. Not surprising since the oil light has been on + the thing is missing 3rd gear. We walked to the trail - only light rain thank goodness.

Stein BR
1988

8 Aug. All the traps still empty and will need lots of cleaning. Am glad that's our last trip as the trail has really been abused. Chris caught a small skink (?) for me. Don't understand why we haven't seen any salamanders!?

Graham caught 2 more rats for me - this time in traps set out by our kitchen. I hate to pickle everything but it's the only way & know g to get it out of here.

Steve did collar the mongoose + they managed to track it down after dinner. Art is putting out another bat net. Spent the evening tissuing the day's catch. Tomorrow all our traps go over to area #2.

9 Aug. A second mongoose, same sp., was brot in last nite. Steve collared that one too + Karen has stayed back today to track them every 1/2 hr. while we go set traps. Art decided the bamboo rat wouldn't live another day so he decided to take eyes, femur for chromo, gut, tissues, + then decided the skin wasn't so great - so I got to pickle it. Yea! for our side.

The trail to area #2 is as bad or worse than that for #1. No hand holds! Put out 100 phemans, some tomahawks + couabeara, then quit. Left the remaining traps up there

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1988

9 Aug.

to be set tomorrow. Graham + Chris went to "the bamboo forest" today - a real disappointment - a very small patch or area that has been cut, burned, + grazed. Lots of leeches - no bamboo rats. Talk is now for us to visit the new Mengla Field Station on the 11th. Want to go but hate to lose the trap nites as our success is so low - this will probably be an oversight trip; roads + conditions dubious. The general weather pattern since the first few days has been rain most of the night, cloudy early morning, rain late morning, cloudy midday, light to heavy rain afternoon, on + off again early evening + on again at nite. Very humid always but not excruciatingly hot.

10 Aug.

A busload of Chinese arrived last nite - tourists? But why here?! Rain during the nite. One Pipistrellus in the net this a.m. Art leaves the nets open all day, doesn't move them, + doesn't check them during the night. No rain this a.m. or afternoon. Five us went back to area #2 to check traps + close them as we're to go to Mengla tomorrow. Put out rest of the Shermans + "snaps" so they'll be in place to bait when we return. Only

Stein, BR.
1958

10 Aug.

one Rattus, ♀ that had 5 yg. in the trap. How disappointing. More time reading than in the field but these are the only areas they'll let us work. Dr. Wu got upset because Chiu wandered off to do some exploring - was afraid he'd get lost - ha! What's worse, he missed lunch, a positive sin by Chinese standards. They never miss a meal. Chiu claims to have found "bamboo rat heaven." I'd love to believe it was so.

11 Aug.

Today the proverbial shit hit the fan. Our plane reservations from Kunming to Hong Kong are screwed up + no one here is capable of straightening things out. We may have to leave here as early as the 14th if we are to get to H.K. in time for our flight - There's no way we can cancel those tickets. But what put the icing on the cake was our trip to Mengla today. Beautiful weather - no rain for 24 hr. Art checked the bat net in the rubber tree grove at 7:00 am. only to find it had been stolen. We loaded the cars before 9:00 am. + headed off. Mengla is a 3 hr. drive on the road that continues east from this field station. Beautiful mountains, most of which have

Stein, BR
1988

11 Aug. been cleared + planted. Rice primarily, but also corn. We arrive in Mengla + are told it would be an hour until lunch so we get a "sightseeing tour" of town to kill time. Lots of PLA here as we are near the border now. After lunch it is just 19 km. North from town (the only big road heads north out of town) to the site of the proposed Man-in-the-Biosphere Smithsonian Field Station. This is 1° forest. The tallest trees we have seen in China. The Reserve has been divided into 2 sections, one north, one south of the road. The narrow neck of road and the land on either side of it is not part of the Reserve and hence, cultivated. So we finally arrive, the weather is glorious, and we are told we have 50 min. + then we head back! We could not walk too far up the road — "too dangerous". Not too far into the forest — "might get lost." That's when Art really began to lose it. (I, personally, would have thrown a gasket 2 days ago, and nearly did).

We stopped on the way back to ~~check~~ the 2nd bat net which had been up 24 hr!

Hein, BR
1988

11 Aug. 2 Dead bats (which Art let me pickle), one live bat (which should have been put up tonite + will probably be dead by tomorrow), + 4 dead birds. What a waste. Dr. Wei, the ornithologist, took the birds, and tonite I saw them lying out on the window sill w/ identifications. But what will he do w/ them? Nothing probably. Wei has the most potential, is the most independent, but seems so handicapped by the system. How hard would it be to learn how to pickle birds we got back in time for dinner, one I could have done easily w/o, + I asked Art about setting the Sherman's tonite. None of his undergrads has any real motivation and I could feel the negative messages from around the table as I even raised the subject. Art was to the point of steaming about the plane tickets as again Wu had made no headway on the problem all day. Art looked around + taking his cue from people's faces said we'd just set them in the morning. As I left dinner Graham offered to go w/ me if I wanted to set them. I would not have considered

Stein, BR
1988.

11 Aug.

it except that we rain for 24 hr. I knew that the trail would be as good as we might hope for. Getting a driver was another matter. God forbid they should have to work. Art + Vicki went out to set up another net in place of the one that was stolen. I didn't want to dawdle as it would be getting dark. Wu was throwing a fit — he felt he should go, then we'd need a bigger car. Different car means different drivers, more delays. I just said, "Let's go" + we took off.

Graham + I did the line, up + back in record time. Got back, showered, + Art sent word I could pockle the 2 dead bats. As I went to the lab to work on them he was there. Turns out that Wu + Patrick got a 2nd car + followed them to the netting area.

That's when Art let him have it, told him he'd up hold \$ for lost days, deduct \$ for new plane tickets, that we were here to work, not "sightsee", what kind of sloppy operation was this, and he just might not come back next yr.

Andy Smith said you can never lose your

Stem, BR
1988

11 Aug

temper of the Chinese but I have to side w/
Art. How long do you let them jerk you
around? How long do you let them play
the \$ game? And for what? Neither of
these 1° forest areas are anything like
the reserve area we visited today. Both
are much larger than we've seen yet
we are restricted from exploring. Both
are trafficked by "tourists" because
the Chinese have no sense of ecology
& litter mercilessly. And yet they are
so sure they are right. This area is
beautiful, even the cultivated fields,
but there is so little of it left and it
is so poorly managed, or not managed
at all. I do not regret a minute of this
trip and in many ways it has been
most successful. But I am also
exceedingly grateful that I have no
need or desire to establish a long-term
research program here.

P.S. Since I got a bit "testy" w/ Patrick
2 days ago the water has not been
turned off once! How much bullshit
do they think I'll put up w/

12 Aug. Miracle of miracles - Mr. Fang, Dir. of the
Ecology Inst. in Kunming, has confirmed

Stein, BR
1988

12 Aug. our reservations for the 20th! Will wonder never cease. That means Chris + I split the pool which bet on our day of departure. Another day morning. Eric went up Troy, Chris, Michelle + Graham to check the traps. One Rattus, again on Art's line. Tried this am. + glad to stay in. Went for a short walk up Karen + upon return it was time to tissue the bats Art had put up. Both were preg. ♀'s - one w/ yg. almost full-term, the other w/ well-developed yg. in placental sac. Pickled both yg. + one of the adults (Cynopterus). After lunch most of us went in search of the bat cave up in the hills on the 1st left turn-off on the way to area #2. Not a bad climb + the guide did all the work. The cave is quite spacious, but seemed to hold ~100 bats, including Hipposideros armatus, which Art would really like to get. Placed one lg. net inside, 2 old ones across the main entrance + one across a large opening in the ceiling. Undoubtedly there are numerous small entrances + exits over which we have no control. The cave itself averages 12' in height, 30' at the rear, tapering off in

Stein, BR
1988

12 Aug.

several areas. Evidences of old campfires means we are not the first or the only visitors. The cave, main chamber, is easily 50' in length. There are 4 steps down into the main chamber from an outer room + some of the walls have been plastered. The best guess is that it was used by one side or the other during W.W. II or the Japanese invasion. I would expect the hillsides are full of such caves + that some might be / have been inhabited by the locals. Our guide scampered around + caught us one Rhinolophus by hand - such a perfect horseshoe noseleaf - much more impressive when alive than dead. The cave itself is probably 20° cooler than the outside air which today was hot + humid. You can feel the temp. drop as you approach through the vegetation. Water drips on the inside. Most of the area leading up to the cave has been cleared, some 2° growth remains.

Graham + Michelle spent a long, hot day trying to place our one bamboo rat live trap - which they eventually did. A brief, hard sun shower hit about 4:00pm - enough to make the trails a mess tomorrow,

Stem, BR
1988

12 Aug. and to wet the corn kernels the cook had set out in the middle of the driveway to dry. Tonight, hopefully get tissues from the rest of the specimens - the bat + the rat.

13 Aug. Art prepared only one bat after dinner - leaving 2 bat + the rat for today. After breakfast we checked the nets at the cave - 5 live bats, one dead and out covered in the net in the "ceiling": of the live ones, a Hipp. amoenus, ~~1~~ Rhinolophus, a Pipistrellus. Tissued all. Went to area #2 to check bat net - nothing.

Then went to check traps - again nothing, but pretty muddy. Got back before lunch + let Wu have it about the water. The Chinese tourists left after breakfast + w/ them so did He + elec. Amazing. Wu was quite indignant. I was so mad I skipped lunch. Plans changed after that as area #3 which we were to explore this aft. is only reachable by a 2 hr. hike or boat ride. Art called their bluff on that one so after lunch we went back to area #2 + pulled all the traps so we could take them to area #3 in the morning. Too muddy + too few people - the undergrads don't have a lot of motivation and are sick as great deal. Miraculously, water appeared at the outdoor



Stein, BR
1988

13 Aug. Showers upon our return. Art mentioned this Chinese guest / the coronation to Patrick who was most indignant. But no water today — and no water tomorrow — it's Sunday!

Cleaned traps tonite — yeast, then tissues. The word on the boat trip for tomorrow is there is no word right now. After dinner they said we couldn't get boats. That was changed to too much rain upstream, water too dangerous. Then there was the excuse of the wild elephants being dangerous. We should be so lucky to see an elephant. I don't know about upstream but we only had light sprinkles this afternoon in the way of rain. I can hardly wait for tomorrow.

14 Aug. Another cloudy A.M. Six of us were to go to area #3 of 1° forest. No boats, it was decided we would walk. Picked up our forestry guide, a 20 school student to help carry traps + the Director, Mr. Wei + Patrick went along for the fun. Started walking from the Dai village, through the cultivated fields + straight up the hillside like we've seen the villagers do. It was long, hot, steep and just a bit slick. A beautiful view from the top. You could look out + see how for miles + miles the forest had been cleared for agriculture. We hiked for about

Stein BR
1988

14 Aug

an hour which got us to the edge of the primary forest. Passed through a bamboo "forest" briefly. Patrick went on about the dangers - wild elephant, tigers, the white buffalo, etc. Altho area #3 is the largest of the 3 preserves once again we were only allowed on the periphery. How frustrating. And we had dragged all those traps along w/ us. I set about 80 altho the habitat seemed much the same to me as in the other areas we had worked. Had we gone by boat I can only guess that we would have approached the reserve from the other side and the climb would have been just as arduous.

Got back about 3:00 pm. All the others had gone out to a new bat cave, along the river, about 10km. further/past the 1st cave of yesterday. It began to pour around 4:00pm - a hard, steady driving rain. We waited. The others returned about 6:30 w/ a net of bats, a veritable gold mine. Mostly 2 genera - Tadarida + Taphozous. Art started on the dead ones first, the live ones he'll save till tomorrow (but they may be dead by then). What he wasnt up to skinning, I got to pickle. I finished everything & here it is midnite. I think he got 5 others at



Stein BR
1988

14 Aug

Cave #1. The rain continued till just a short while ago. I can't begin to think what the hillside will be like tomorrow + the troops are fighting not to go.

Steve recovered one abandoned radio collar today - in a woodpile 10 min. walk from here. It may have been Sunday but we had water all day until 6:45pm but no electricity. Electricity went on about then, died once about 9:00pm + will probably croak any minute now.

15 Aug.

Light rain this morning. ^{got} Up w/ the electricity and wrapped up some of the alcoholics to make room in the bucket for what we'll do today. After some discussion I was able to stay here and tissue specimens while Chris + Troy went back up to area #3. Steve, Michelle, + Graham went to area #2 to get what traps were left., then Eric + Michelle checked bat nets - just one ^{fruit} ^{Cynopterus} bat, ⁺ Chris + Troy took 2 nets to area #3 + came back w/ 4 "Rats" - 3 Rattus(?), 1 Niviventer. Rain let up late morning. Started to pack up study skins + we came by all excited - can't pack till tomorrow after the forestry service guy comes + checks our specimens - we must pay for them. The alcoholics technically don't exist. Just

Stein, BR
1988

15 Aug.

need to keep my frustrations in check for 2 more days.

4 Rat caught in high, rocky area where Graham set traps.

Tomb bats, Taphozous ^{**}, have few if any ECTOs. Prepared all but the one Niviventer - Art footfired and he feels it is special.

16 Aug.

I caught a rat! In the 2nd to last Victor in my line. Didn't get off till 9:30 am. Started walking from the station. It took 1½ hr. to get up to area #3. It was a whole lot easier w/o hauling a bag of traps. No sooner did we arrive than the rains started. Pulled all the traps + redistributed them among the 8 of us, then headed down again. Used my walking stick which really made a difference. Graham + I walked ahead and had a nice talk. Asked me if I'd be interested in coming back again not necessarily ~~far~~ to China, but to SE Asia. We would put together our own group and do it right. He's gureite than I am but he is just as frustrated.

Art got about a dozen bats, new sp. maybe, now he thinks it just a large Hipposideros armiger. Interesting how each cave or area, particularly the caves, have only one or 2 types of bats.

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